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APPLICATION NO.	FILING DATE	FIRST NAMED-INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,571	03/11/2004	Akihiro Moto	033035M143	4805
75	90 12/01/2006	•	EXAMINER	
Smith, Gambrell & Russell			FLORES RUIZ, DELMA R	
Suite 800 1850 M Street, I	N.W.		ART UNIT	PAPER NUMBER
Washington, DC 20036			2828	·
			DATE MAILED: 12/01/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

. ,	Application No.	Applicant(s)	
Supplemental	10/797,571	MOTO, AKIHIRO	
Office Action Summary	Examiner	Art Unit	
	Delma R. Flores Ruiz	2828	
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a re on. period will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. ply be timely filed I'HS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status	•		
1) Responsive to communication(s) filed on	11 March 2004.		
1 '_ '	This action is non-final.		-
3) Since this application is in condition for al		ers, prosecution as to the merits	is
closed in accordance with the practice un	•	• •	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-17</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1, 3-6, and 8-9</u> is/are rejected. 7) ⊠ Claim(s) <u>2, 7, 10 - 17</u> is/are objected to. 8) □ Claim(s) are subject to restriction a	hdrawn from consideration.	•	
Application Papers			
9) The specification is objected to by the Exa 10) The drawing(s) filed on 11 March 2004 is/a Applicant may not request that any objection to Replacement drawing sheet(s) including the contact of the second secon	are: a) \square accepted or b) \boxtimes object the drawing(s) be held in abeyand correction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121	
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the copies of the priority document of the copies of the copies of the application from the International But * See the attached detailed Office action for the copies of the application from the International But * See the attached detailed Office action for the copies of the application from the International But * See the attached detailed Office action for the copies of the copies of the action for the copies of t	ments have been received. ments have been received in Appriority documents have been ureau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94-3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 5/21/2004.	8) Paper No(s	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 	
	ice Action Summary	Part of Paper No./Mail Date 20060)131

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 05/21/2004 have been considered by the examiner.

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description:

Figures 1, 2, 3, characters 25 and 23

Figure 3, Character 49

Figures 4, 5, 11, Character 15b and

Figure 14, Characters 77a, 77b, 77f and 77g.

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Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description:

In Paragraph [0065], Characters: light-emitting module 2, and lead terminal from 79a.

In Paragraph [0066], Characters: conductive layer 61c, bonding wire 83, drive 65, laser diode 67, and

In Paragraph [0068], Character V-groove 61f.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended

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replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Uchida (6,301,278).

Regarding claim 1, Uchida discloses in Figure 11 and 12 a light-transmitting module, comprising: a stack of a metallic block (see Fig. 11, Character 25', Column 2, Lines 20 – 21), an insulating heat sink (21see Fig. 11, Character 20) mounted on said

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metallic block and an electrically conductive layer (see Fig. 11, Characters 35' and 40') formed on said insulating heat sink, said stack forming a parallel-plate capacitor; and a laser diode (see Fig. 11, Character 30) having an anode and a cathode, said laser diode being mounted on said conductive layer such that said anode faces and is in contact with said conductive layer (Column 1, Lines 31 - 34, Column 2, Lines 11 - 41 and Column 3, Lines 1 - 10).

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Regarding claim 6, Uchida discloses in Figure 11 and 12 a light-transmitting module, comprising: a stack of an electrically conductive heat sink (see Fig. 11, Character 25', Column 2, Lines 20 – 21), an insulating layer provided on said heat sink (21see Fig. 11, Character 20) and an electrically conductive layer (see Fig. 11, Characters 35' and 40'), said stack forming a parallel-plate capacitor; and a laser diode (see Fig. 11, Character 30) mounted having an anode and a cathode, said laser diode being mounted on said conductive layer such that said anode faces and is in contact with said conductive layer (Column 1, Lines 31 – 34, Column 2, Lines 11 – 41 and Column 3, Lines 1 – 10)

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Figures 11 and 12 by Uchida ('278).

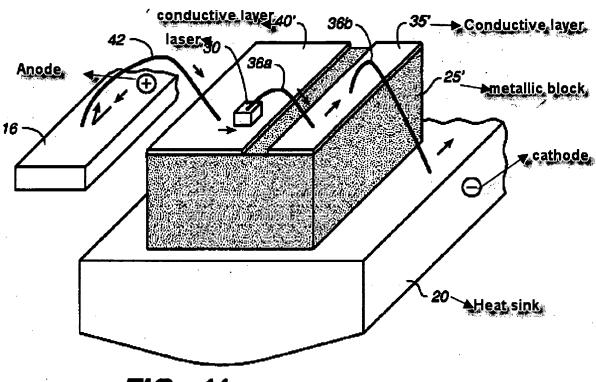
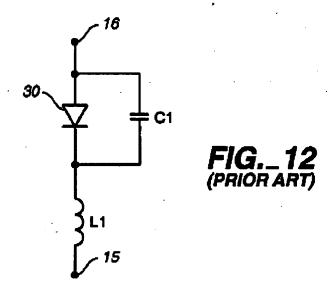


FIG._11 (PRIOR ART)



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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 4, 8, 9, are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida (6,301,278) in view of Cohen (5,615,224).

Regarding claims 3, 4, 8 and 9, Uchida discloses the claimed invention except for diode laser comprising an n-type and p-type substrate, cladding, active, anode and cathode. However, it is well know in the art to apply the n-type and p-type substrate, cladding, active, anode and cathode as discloses by Cohen in Figures 4 - 5, Column 9, Lines 32 - 56. Therefore, it would have been obvious to a person having ordinary skill in the art to apply the well know n-type and p-type substrate, cladding, active, anode and cathode as suggested by Cohen to the diode laser of Uchida, because these layer they are essential part of diode laser, that is could used to transmit certain type of coherent light Figure 4 - 5 of Cohen.

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Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida (6,301,278) in view of Kimizuka (6,633,598).

Regarding claim 5, Uchida discloses the claimed invention except for driver.

However, it is well know in the art to apply the drive as discloses by Kimizuka in Column 6, Lines 10 – 11. Therefore, it would have been obvious to a person having ordinary skill in the art to apply the well know driver as suggested by Kimizuka to the diode laser of Uchida, because it will could be used to guide the current of the laser see Column 6, Lines 10 - 11 of Kimizuka.

Allowable Subject Matter

Claims 2, 7, 10 – 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) -272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Delma R. Flores Ruiz

Examiner Art Unit 2828

DRFR/MH March 9, 2006 Min Sun Harvey Supervisor Patent Examiner Art Unit 2828